This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A field sequential liquid crystal display device, comprising:

a liquid crystal panel having an upper substrate, a lower substrate, and an interposed

liquid crystal layer;

a data input driver;

a back light under the lower substrate for irradiating light onto the liquid crystal panel,

said back light including at least three light sources; and

a signal processing circuit connected to the data input driver and electrically controlling

the light sources, wherein the signal processing circuit directly controls a luminance of each of

the light sources.

2. (Original) A field sequential liquid crystal display device according to claim 1, wherein

the light sources include Red, Green and Blue.

3. (Original) A field sequential liquid crystal display device according to claim 1, wherein

each light source is disposed at a lower corner of the liquid crystal panel.

4. (Previously Presented) A field sequential liquid crystal display device according to claim

1, wherein each light source is disposed under the liquid crystal panel.

Page 2 of 8

Application No.: 09/988,650 Docket No.: 8733.536.00-US

Amdt. dated September 21, 2004

Reply to Final Office Action dated June 21, 2004

5. (Original) A field sequential liquid crystal display device according to claim 1, further

including a panel for uniformly dispersing light from the back light onto the liquid crystal panel.

6. (Original) A field sequential liquid crystal display device according to claim 1, wherein

said signal processing circuit is for receiving image data, for determining the average lumination

in the image data, and for electrically controlling the luminance of each of the light sources

based on the determined average lumination.

7. (Original) A field sequential liquid crystal display device according to claim 6, wherein

said signal processing circuit is further for controlling the transmissivity of the liquid crystal such

that the perceived lumination of the field sequential liquid crystal display device during a frame

is dependent on the lumination in the image data.

8. (Original) A field sequential liquid crystal display device according to claim 7, wherein

the transmissivity of the liquid crystal is controlled by turning on thin-film transistors during sub-

frames.

9. (Original) A field sequential liquid crystal display device according to claim 8, wherein

the light sources are turned on and off during each sub-frame while thin-film transistors are

turned on.

10. (Original) A field sequential liquid crystal display device according to claim 1, wherein

said signal processing circuit is for receiving image data, for determining an emphasized color in

Page 3 of 8.

Application No.: 09/988,650 Docket No.: 8733.536.00-US

Amdt. dated September 21, 2004

Reply to Final Office Action dated June 21, 2004

the image data, and for electrically controlling the luminance of at least one light source to

produce an image having the emphasized color in the image data is emphasized.

11. (Original) A field sequential liquid crystal display device according to claim 10, wherein

said signal processing circuit is further for controlling the transmissivity of the liquid crystal to

emphasize the emphasized color in the image data.

12. (Original) A field sequential liquid crystal display device according to claim 10, wherein

the light sources are turned on and off during sub-frames.

13. (Currently Amended) A method of displaying a color image using a field sequential

liquid crystal display device having upper and lower substrates, an interposed liquid crystal

layer, and a back light having Red, Green, and Blue light sources, the method comprising the

steps of:

converting frame-based image signal data into luminance values Ra, Ga, and Ba that are

to be produced during sub-frames of each frame period, wherein each sub-frame is one-third of a

frame period; and

driving the Red, Green, and Blue light sources in sequential sub-frames so as to produce

respective luminances Ra, Ga and Ba, wherein Ra, Ga and Ba are in accord with the following:

Rx x (Tr x Tk) = Ra

Gy x (Tg x Tk) = Ga

Bz x (Tb x Tk) = Ba

where Tr, Tg, and Tb are transmissivities of the liquid crystal, Rx, Gy, and Bz are

luminances of the light sources, and Tk is a transmissivity of the liquid crystal panel.

Page 4 of 8

Application No.: 09/988,650 Docket No.: 8733.536.00-US Amdt. dated September 21, 2004

Reply to Final Office Action dated June 21, 2004

14. (Original) The method according to claim 13, wherein the liquid crystal is aligned in each

sub-frame, and wherein an associated light source is turned on and off while the liquid crystal is

aligned in each sub-frame.

15. (Original) The method according to claim 13, wherein the luminances Ra, Ga and Ba are

average luminance values.

16. (Original) The method according to claim 13, wherein the luminances Ra, Ga and Ba are

produced by controlling both the liquid crystal alignment and the light source luminances.

Claim 17 (Canceled).

18. (Original) The method according to claim 13, wherein the liquid crystal alignment and

the luminance of the light source of the back light can be controlled by varying an electric signal.

19. (Original) The method according to claim 13, wherein if one of the luminances Ra, Ga,

and Ba is greater than an average value of the Ra, Ga, and Ba, the transmissivity of the liquid

crystal and the luminance of the light source at the sub-frame displaying an image having the

bigger luminance is set as a maximum value.

20. (Original) The method according to claim 13, wherein the alignment direction of liquid

crystal molecules and the luminance of the light source of the back light can be controlled by

varying an electric current.

Page 5 of 8